

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0002 Brannan Andrus Levee Maintenance District	Overall LMA Rating	Total LMA Miles						
	U	19.32						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.30	0.02	0.38	1.97%	0.06	0.25		
Trim / Thin Trees	0.61	0.45	2.41	12.47%	0.03			
Encroachments	0.05	0.01	0.09	0.47%	0.33	0.01		
Animal Control	0.01		0.01	0.05%				
Flood Preparedness & Training	0.19		0.19	0.98%				
<i>Supplemental</i>								
USACE Erosion Survey	0.60	0.50	2.60	13.46%				
<i>LMA Totals:</i>	1.76	0.98	5.68	29.40%	0.42	0.26	0.00	0.00
Unit No. 01 Georgiana Slough RB NA0002	Overall Unit Rating	Total Unit Miles						
	A	6.02						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.25		0.25	4.15%		0.09		
Trim / Thin Trees	0.10		0.10	1.66%				
Encroachments	0.02		0.02	0.33%	0.07			
Animal Control	0.01		0.01	0.17%				
<i>Unit Totals:</i>	0.38	0.00	0.38	6.31%	0.07	0.09	0.00	0.00
Unit No. 02 Sacramento River LB NA0002	Overall Unit Rating	Total Unit Miles						
	U	13.30						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.05	0.02	0.13	0.98%	0.06	0.16		
Trim / Thin Trees	0.51	0.45	2.31	17.37%	0.03			
Encroachments	0.03	0.01	0.07	0.53%	0.26	0.01		
<i>Supplemental</i>								
USACE Erosion Survey	0.60	0.50	2.60	19.55%				
<i>Unit Totals:</i>	1.19	0.98	5.11	38.42%	0.35	0.17	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Fall 2013 Levee Inspection Results

Brannan Andrus Levee Maintenance District

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an induction of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 01 Georgiana Slough			Right	6.02
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	04/03/2013 - 04/03/2013		10/10/2013 - 10/10/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Gilbert Labrie DCC Engineering Co, Inc		Gilbert Labrie DCC Engineering Co, Inc	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
1	Earthen Levee	Flood Preparedness & Training	WS	M Ma						°	° 27
										°	°
2	Earthen Levee	Operations & Maintenance Manuals	WS	A Ma						°	° 32
										°	°
3	Earthen Levee	Emergency Supplies & Equipment	WS	A Ma						°	° 33
										°	°
4	0.50 0.75	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild roses or berry vines at landside toe.					38.182702 ° -121.570497 °	38.182198 ° -121.574877 ° Y
5	1.58 1.58	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.					38.170425 ° -121.581080 °	38.172887 ° -121.580590 ° Y
6	2.20 2.22	Earthen Levee	Vegetation	LS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild rose on landside slope and toe.					38.164138 ° -121.584078 °	38.163797 ° -121.584225 °
7	2.25 2.25	Earthen Levee	Trim / Thin Trees	LS A/W Ma	T1 : Trim trees to at least five feet above ground level.					38.163460 ° -121.584406 °	38.163460 ° -121.584406 °
8	2.29 2.34	Earthen Levee	Vegetation	LS U En	V6 : Landscaping					38.162918 ° -121.584721 °	38.162322 ° -121.585081 ° Y
9	2.30 2.30	Earthen Levee	Encroachments	WS M Ma	FW : Firewood					38.162773 ° -121.584767 °	38.162773 ° -121.584767 ° Y
10	2.36 2.36	Earthen Levee	Animal Control	LS M Ma	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					38.162004 ° -121.585229 °	38.162004 ° -121.585229 °
11	2.39 2.39	Earthen Levee	Encroachments	LS M Ma	GA : Garbage					38.161573 ° -121.585720 °	38.161573 ° -121.585720 ° Y
12	2.45 2.56	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild rose on landside slope and toe.					38.160805 ° -121.585782 °	38.159235 ° -121.586472 °
13	3.32 3.35	Earthen Levee	Vegetation	LS A/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild roses on landside slope.					38.152052 ° -121.591500 °	38.151683 ° -121.591662 ° Y

* Location
LS : Land Side
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** Rating
A : Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
MR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo
	Levee Mile	End						Start	End		
14	3.37	3.37	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove cactus from waterward slope.	38.151492 °	38.151492 °	5 -121.591942 °	-121.591942 ° Y
											DWR ID: DWR_NA0002_01_f_2013_5
15	3.46	3.82	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Willows on waterside slope.	38.151572 °	38.149813 °	30 -121.593488 °	-121.598913 °
											DWR ID: DWR_NA0002_01_s_2013_30
16	3.62	3.62	Earthen Levee	Trim / Thin Trees	LS A/W	T1	Trim trees to at least five feet above ground level.	38.151744 °	38.151744 °	9 -121.596425 °	-121.596425 °
											DWR ID: DWR_NA0002_01_s_2012_9
17	3.75	3.75	Earthen Levee	Encroachments	WSA/W	TR	Tree or limb	38.150573 °	38.150573 °	22 -121.598352 °	-121.598352 °
							Inspector Comments: Downed tree on waterside slope.				DWR ID: DWR_NA0002_01_s_2012_22
18	3.93	3.93	Earthen Levee	Vegetation	WSA/W	Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.148379 °	38.148379 °	10 -121.599970 °	-121.599970 ° Y
											DWR ID: DWR_NA0002_01_s_2012_10
19	3.93	3.97	Earthen Levee	Vegetation	LS	U En	V6 : Landscaping	38.148318 °	38.147898 °	11 -121.599947 °	-121.600347 ° Y
											DWR ID: DWR_NA0002_01_s_2012_11
20	4.18	4.20	Earthen Levee	Trim / Thin Trees	LS A/W	T1	Trim trees to at least five feet above ground level.	38.145094 °	38.144817 °	12 -121.601585 °	-121.601477 °
											DWR ID: DWR_NA0002_01_s_2012_12
21	4.22	4.28	Earthen Levee	Encroachments	WS	M En	LI : Landscape Irrigation Inspector Comments: Sprinkler system on waterside of levee.	38.144471 °	38.143652 °	20 -121.601381 °	-121.600877 ° Y
											DWR ID: DWR_NA0002_01_f_2013_20
22	4.25	4.28	Earthen Levee	Trim / Thin Trees	WS	M Ma	T1 : Trim trees to at least five feet above ground level.	38.144134 °	38.143747 °	13 -121.601177 °	-121.600924 °
											DWR ID: DWR_NA0002_01_s_2012_13
23	4.36	4.36	Earthen Levee	Trim / Thin Trees	WSA/W	T1	Trim trees to at least five feet above ground level.	38.142838 °	38.142838 °	21 -121.600163 °	-121.600163 °
											DWR ID: DWR_NA0002_01_s_2012_21
24	4.78	4.78	Earthen Levee	Encroachments	LS	M En	GA : Garbage Inspector Comments: Landowner stockpiling wooden beams on landside shoulder.	38.137478 °	38.137472 °	24 -121.596512 °	-121.596512 ° Y
											DWR ID: DWR_NA0002_01_s_2012_24
25	4.98	4.98	Earthen Levee	Trim / Thin Trees	WSA/W	T4	Trim trees over roadway to at least 12 feet above ground level.	38.135158 °	38.135158 °	14 -121.594198 °	-121.594198 °
											DWR ID: DWR_NA0002_01_s_2012_14
26	5.11	5.11	Earthen Levee	Trim / Thin Trees	WS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.133759 °	38.133759 °	15 -121.592598 °	-121.592598 °
											DWR ID: DWR_NA0002_01_s_2012_15
27	5.17	5.17	Earthen Levee	Trim / Thin Trees	WS	M Ma	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.133145 °	38.133145 °	31 -121.591895 °	-121.591895 °
											DWR ID: DWR_NA0002_01_s_2013_31

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
MR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
28	5.25	5.25	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level. Ma	38.132238 ° -121.590897 °	38.132238 ° -121.590897 °	16	DWR ID: DWR_NA0002_01_s_2012_16	
29	5.33	5.33	Earthen Levee	Trim / Thin Trees	WS Ma	T1 : Trim trees to at least five feet above ground level. Ma	38.131327 ° -121.589980 °	38.131327 ° -121.589980 °	2	DWR ID: DWR_NA0002_01_s_2012_2	
30	5.42	5.42	Earthen Levee	Encroachments	LS A/W Ma	TR : Tree or limb Inspector Comments: Tree limb on landside slope.	38.130355 ° -121.588942 °	38.130355 ° -121.588942 °	4	DWR ID: DWR_NA0002_01_s_2012_4	
31	5.46	5.57	Earthen Levee	Vegetation	LS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove vegetation at landside toe.	38.129810 ° -121.588218 °	38.129325 ° -121.586448 °	23	DWR ID: DWR_NA0002_01_s_2012_23	
32	5.63	5.67	Earthen Levee	Vegetation	WS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Wild roses or berry vines on waterside slope.	38.129240 ° -121.585328 °	38.129252 ° -121.584723 °	18	DWR ID: DWR_NA0002_01_s_2012_18	
33	5.69	5.69	Earthen Levee	Vegetation	WSA/W Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Willows on waterside slope	38.129307 ° -121.584253 °	38.129307 ° -121.584253 °	19	DWR ID: DWR_NA0002_01_s_2012_19	
34	5.74	5.81	Earthen Levee	Vegetation	WS Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove berryvine from waterward slope.	38.129462 ° -121.583337 °	38.129608 ° -121.582085 °	34	DWR ID: DWR_NA0002_01_f_2013_34	
35	5.79	5.81	Earthen Levee	Trim / Thin Trees	LS Ma	T1 : Trim trees to at least five feet above ground level. Ma	38.129537 ° -121.582760 °	38.129599 ° -121.582155 °	17	DWR ID: DWR_NA0002_01_s_2012_17	

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	0.50
End Levee Mile	0.75
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southwest at wild roses or berry vines on landside toe.	
richard_f_20130930_509.jpg	



Levee Mile Report Line	5
Start Levee Mile	1.58
End Levee Mile	1.58
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southwest at untrimmed tree on landward slope and toe.	
richard_f_20130930_524.JPG	



Levee Mile Report Line	8
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense landscape on waterside and landside of levee.	
richard_f_20130930_526.jpg	



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Brannan Andrus Levee Maintenance District

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Unit No. 01 Georgiana Slough	Right	6.02	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at ground cover on landside slope.	
richard_f_20130930_527.jpg	



Levee Mile Report Line	8
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at dense vegetation on waterside slope.	
richard_f_20130930_528.jpg	



Levee Mile Report Line	8
Start Levee Mile	2.29
End Levee Mile	2.34
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense oleander on waterside shoulder spring 2012	
richard_f_20130930_529.jpg	



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Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	9
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking east at firewood on waterside shoulder.	
richard_f_20130930_510.jpg	



Levee Mile Report Line	9
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking south at firewood on waterside shoulder.	
richard_f_20130930_511.jpg	



Levee Mile Report Line	9
Start Levee Mile	2.30
End Levee Mile	2.30
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at firewood on waterside shoulder.	
richard_f_20130930_512.jpg	



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Unit No. 01 Georgiana Slough	Right	6.02	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	2.39
End Levee Mile	2.39
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at garbage at landward toe.	
richard_f_20130930_514.JPG	



Levee Mile Report Line	13
Start Levee Mile	3.32
End Levee Mile	3.35
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at wild roses on landward slope and toe.	
richard_f_20130930_525.JPG	



Levee Mile Report Line	14
Start Levee Mile	3.37
End Levee Mile	3.37
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south at cacti on waterward slope near Oxbow Harbor.	
richard_f_20131021_089.JPG	



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Unit No. 01 Georgiana Slough	Right	6.02	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	3.93
End Levee Mile	3.93
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense vegetation on waterside slope.	
richard_f_20130930_515.jpg	



Levee Mile Report Line	18
Start Levee Mile	3.93
End Levee Mile	3.93
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense vegetation on waterside slope spring 2012.	
richard_f_20130930_516.jpg	



Levee Mile Report Line	18
Start Levee Mile	3.93
End Levee Mile	3.93
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south at dead willows on waterward slope. (Spring 2013)	
richard_f_20130930_517.JPG	



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Levee Mile Report Line	19
Start Levee Mile	3.93
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking northeast at landscaping on landside slope.	
richard_f_20130930_518.jpg	



Levee Mile Report Line	19
Start Levee Mile	3.93
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking west at dense landscaping on landside slope.	
richard_f_20130930_519.jpg	



Levee Mile Report Line	19
Start Levee Mile	3.93
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at brushes on landside shoulder and slope.	
richard_f_20130930_520.jpg	



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Levee Mile Report Line	21
Start Levee Mile	4.22
End Levee Mile	4.28
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking south at a sprinkler system on waterward slope.	
richard_f_20131021_090.JPG	



Levee Mile Report Line	24
Start Levee Mile	4.78
End Levee Mile	4.78
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northwest at wooden boards on landside shoulder.	
richard_f_20130930_523.jpg	



Levee Mile Report Line	30
Start Levee Mile	5.42
End Levee Mile	5.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at a downed tree limb on landside slope.	
richard_f_20130930_513.jpg	



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Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	31
Start Levee Mile	5.46
End Levee Mile	5.57
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at trees, berry vines, and wild rose on landside toe.	
richard_f_20130930_522.jpg	



Levee Mile Report Line	31
Start Levee Mile	5.46
End Levee Mile	5.57
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense berry vines and trees on the landward slope and toe.	
richard_f_20131021_091.JPG	



Levee Mile Report Line	31
Start Levee Mile	5.46
End Levee Mile	5.57
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking east at dense vegetation on landward toe.	
richard_f_20131021_092.JPG	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Georgiana Slough	Right	6.02	10/10/2013 10/10/2013	Richard Willoughby

Levee Mile Report Line	32
Start Levee Mile	5.63
End Levee Mile	5.67
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense vegetation on waterside slope.	
richard_f_20130930_521.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Brannan Andrus Levee Maintenance District

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Left	13.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/03/2013 - 04/03/2013		10/08/2013 - 10/08/2013	
DWR Inspector	Richard Willoughby		Richard Willoughby	
Accompanied By	Gilbert Labrie DCC Engineering Co, Inc		Gilbert Labrie DCC Engineering Co, Inc	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No.	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment	GPS Latitude/Longitude		Issue No. Start	Photo
	Start	End						Start	End		
1	0.42	0.42	Earthen Levee	Encroachments	LS	M	FE : Fence En	38.189212 °	38.189212 °	26	
								-121.574757 °	-121.574757 °	Y	DWR ID: DWR_NA0002_02_s_2012_26
2	0.48	0.48	Earthen Levee	Encroachments	LS	M	BU : Building En	38.188872 °	38.188872 °	39	
							Inspector Comments: Storage container at landward toe.	-121.575775 °	-121.575775 °	Y	DWR ID: DWR_NA0002_02_f_2013_39
3	0.48	0.48	Earthen Levee	Vegetation	LS	M	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.	38.188871 °	38.188871 °	40	
							Inspector Comments: Berryvines at landward toe.	-121.575775 °	-121.575775 °		DWR ID: DWR_NA0002_02_f_2013_40
4	0.67	0.67	Earthen Levee	Trim / Thin Trees	LS	A/W	T1 : Trim trees to at least five feet above ground level. Ma	38.187486 °	38.187486 °	1	
								-121.578783 °	-121.578783 °		DWR ID: DWR_NA0002_02_s_2012_1
5	0.78	0.83	Earthen Levee	Trim / Thin Trees	WS	M	WSA/W T1 : Trim trees to at least five feet above ground level. Ma	38.186535 °	38.186103 °	2	
								-121.580395 °	-121.581127 °	Y	DWR ID: DWR_NA0002_02_s_2012_2
6	0.81	0.83	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	38.186455 °	38.186215 °	8	
								-121.580712 °	-121.581060 °	Y	DWR ID: DWR_NA0002_02_s_2012_8
7	1.16	1.16	Earthen Levee	Encroachments	WS	M	GA : Garbage Ma	38.182465 °	38.182465 °	41	
							Inspector Comments: Trash (sofa) on waterward slope.	-121.584957 °	-121.584957 °	Y	DWR ID: DWR_NA0002_02_f_2013_41
8	1.44	1.44	Earthen Levee	Trim / Thin Trees	LS	M	T1 : Trim trees to at least five feet above ground level. En	38.178950 °	38.178950 °	27	
							Inspector Comments: Dense vegetation should be trimmed back fifteen feet from landward toe.	-121.587717 °	-121.587717 °	Y	DWR ID: DWR_NA0002_02_s_2012_27
9	1.55	1.56	Earthen Levee	Vegetation	WSA/W	V4	Elderberries are blocking visibility and flood fight En capability.	38.174643 °	38.174642 °	43	
								-121.659695 °	-121.659688 °		DWR ID: DWR_NA0002_02_s_2012_43
10	1.59	1.61	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	38.177105 °	38.176837 °	35	
								-121.589058 °	-121.589225 °		DWR ID: DWR_NA0002_02_s_2012_35
11	1.64	1.64	Earthen Levee	Trim / Thin Trees	LS	A/W	T1 : Trim trees to at least five feet above ground level. Ma	38.176486 °	38.176486 °	3	
								-121.589445 °	-121.589445 °		DWR ID: DWR_NA0002_02_s_2012_3
12	1.80	1.82	Earthen Levee	Vegetation	LS	U	V2 : Remove the wild growth other than native grasses Ma from the levee slopes.	38.174437 °	38.174153 °	45	
							Inspector Comments: Dense vegetation on landward slope and toe	-121.590786 °	-121.590980 °	Y	DWR ID: DWR_NA0002_02_f_2013_45
13	1.80	1.80	Earthen Levee	Encroachments	LS	M	BU : Building En	38.174433 °	38.174433 °	46	
							Inspector Comments: Animal pens at landward toe.	-121.590792 °	-121.590792 °	Y	DWR ID: DWR_NA0002_02_f_2013_46
14	1.81	1.81	Earthen Levee	Vegetation	LS	M	V6 : Landscaping En	38.174302 °	38.174302 °	28	
								-121.590863 °	-121.590863 °		DWR ID: DWR_NA0002_02_s_2012_28

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LWR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
15	1.83	1.83	Earthen Levee	Encroachments	LS En	M	TA : Tank Inspector Comments: Propane tank on landward slope.	38.174097 °	38.174097 °	54	
								-121.591002 °	-121.591002 °	Y	
								DWR ID: DWR_NA0002_02_f_2013_54			
16	1.83	1.83	Earthen Levee	Encroachments	LS En	C	BU : Building	38.174030 °	38.174030 °	34	
								-121.590963 °	-121.590963 °		
								DWR ID: DWR_NA0002_02_s_2012_34			
17	1.84	1.84	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T1 : Trim trees to at least five feet above ground level.	38.173905 °	38.173905 °	4	
								-121.591082 °	-121.591082 °		
								DWR ID: DWR_NA0002_02_s_2012_4			
18	1.91	1.95	Earthen Levee	Vegetation	LS En	U	V6 : Landscaping	38.173120 °	38.172598 °	12	
								-121.591505 °	-121.591853 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_12			
19	2.34	2.38	Earthen Levee	Trim / Thin Trees	LS Ma	M	T1 : Trim trees to at least five feet above ground level.	38.167627 °	38.167152 °	25	
								-121.595538 °	-121.595997 °		
								DWR ID: DWR_NA0002_02_s_2012_25			
20	2.48	2.48	Earthen Levee	Trim / Thin Trees	LS En	M	T1 : Trim trees to at least five feet above ground level.	38.166378 °	38.166378 °	29	
								-121.597570 °	-121.597570 °		
								DWR ID: DWR_NA0002_02_s_2012_29			
21	2.59	2.63	Supplemental USACE Erosion Survey	WS Ma	M		Inspector Comments: 2009 - Short reach of vertical bank at the toe. 2010 - Large tree is getting ready to fall in. 2012: No observed change. [2012 Site ID: SAC_18-1_L]	38.165945 °	38.165498 °	17	
								-121.599345 °	-121.600080 °	Y	
								DWR ID:			
22	2.66	2.74	Supplemental USACE Erosion Survey	WS Ma	M		Inspector Comments: 2009 - Large scallop from rotational failure. One fallen tree and one large tree with half of its root structure exposed. 2012: No observed change. [2012 Site ID: SAC_18-0_L]	38.165303 °	38.164682 °	18	
								-121.600477 °	-121.601804 °	Y	
								DWR ID:			
23	2.93	3.13	Earthen Levee	Encroachments	LS En	M	UR : Urban	38.163317 °	38.162707 °	30	
								-121.604813 °	-121.608262 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_30			
24	3.17	3.17	Earthen Levee	Trim / Thin Trees	WS Ma	M	T4 : Trim trees over roadway to at least 12 feet above ground level.	38.162638 °	38.162638 °	5	
								-121.609068 °	-121.609068 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_5			
25	3.20	3.20	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T4	Trim trees over roadway to at least 12 feet above ground level.	38.162643 °	38.162643 °	6	
								-121.609616 °	-121.609616 °		
								DWR ID: DWR_NA0002_02_s_2012_6			
26	3.22	3.22	Earthen Levee	Trim / Thin Trees	LS Ma	A/W	T2 : Thin trees to allow visibility of the ground and room to flood fight.	38.162609 °	38.162609 °	7	
								-121.609979 °	-121.609979 °		
								DWR ID: DWR_NA0002_02_s_2012_7			

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector	
LWR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.		
	Start	End						Start	End			
27	3.40	3.57	Supplemental USACE Erosion Survey	WS	U Ma	Inspector Comments: 2009 - Fluvial erosion, into the levee slope, close to vertical bank with roadway on top. Piling that were once at the bankline are now 30 ft out. 2010 - Very steep slope with slumps and overturned trees. 2011 - Upgraded to CRITICAL. Sections of vertical slope with highway on top. Heavy vegetation in front of most of the erosion pockets. Structures built into the levee on the upstream end. 2012: Site continues to worsen. [2012 Site ID: SAC_17-2_L]	38.162641 °	38.162828 °	19	-121.612800 °	-121.616263 °	Y
28	3.53	3.60	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.	38.162590 °	38.162728 °	22	-121.615345 °	-121.616622 °	DWR ID: DWR_NA0002_02_s_2012_22
29	3.61	3.72	Supplemental USACE Erosion Survey	WS	U Ma	Inspector Comments: 2008 - Overstepped levee section with pocket erosion. Plans for repair currently in the design phase. 2010 - Very steep slope with slumps, longitudinal cracking, and overturned trees. 2011 - Upgraded to CRITICAL. Sections of vertical slope with highway on top. Heavy vegetation in front of most of the erosion pockets. 2012: No observed change. [2012 Site ID: SAC_16-8_L]	38.162959 °	38.163334 °	20	-121.617323 °	-121.619312 °	Y
30	3.67	3.67	Earthen Levee	Encroachments	LS U Ma	PI : Pipe Inspector Comments: Landowner is repairing a pipe (Permit # 1615) without authorization from CVFPB. The excavation next to ramp is four to five feet deep and three to four feet wide. Landowner needs to ensure the hole is backfilled properly.	38.162855 °	38.162855 °	55	-121.618114 °	-121.618114 °	DWR ID: DWR_NA0002_02_f_2013_55
31	4.01	4.01	Earthen Levee	Trim / Thin Trees	LS M En	T1 : Trim trees to at least five feet above ground level.	38.164470 °	38.164470 °	31	-121.624012 °	-121.624012 °	DWR ID: DWR_NA0002_02_s_2012_31
32	4.04	4.15	Earthen Levee	Vegetation	LS U En	V6 : Landscaping	38.164498 °	38.165167 °	59	-121.624343 °	-121.626273 °	Y DWR ID: DWR_NA0002_02_s_2012_59
33	4.47	4.47	Earthen Levee	Trim / Thin Trees	LS A/W En	T1 : Trim trees to at least five feet above ground level.	38.167135 °	38.167135 °	32	-121.631662 °	-121.631662 °	DWR ID: DWR_NA0002_02_s_2012_32
34	4.59	4.59	Earthen Levee	Encroachments	LS A/W En	TR : Tree or limb Inspector Comments: Broken tree limb on landside slope and toe.	38.167650 °	38.167650 °	53	-121.633770 °	-121.633770 °	Y DWR ID: DWR_NA0002_02_s_2013_53
35	5.19	5.43	Earthen Levee	Trim / Thin Trees	WS U Ma	T1 : Trim trees to at least five feet above ground level.	38.171455 °	38.171800 °	9	-121.643229 °	-121.647447 °	Y DWR ID: DWR_NA0002_02_s_2012_9
36	5.41	5.41	Earthen Levee	Encroachments	LS M En	FE : Fence	38.171850 °	38.171850 °	56	-121.647000 °	-121.647000 °	DWR ID: DWR_NA0002_02_f_2013_56

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
37	5.59	5.59	Earthen Levee	Trim / Thin Trees	WSA/W Ma	T1 : Trim trees to at least five feet above ground level. Ma	38.172019 ° -121.650327 °	38.172019 ° -121.650327 °	10	DWR ID: DWR_NA0002_02_s_2012_10	
38	5.66	5.70	Earthen Levee	Vegetation	WS Ma	M V2 : Remove the wild growth other than native grasses from the levee slopes.	38.172308 ° -121.651552 °	38.172497 ° -121.652243 °	11	DWR ID: DWR_NA0002_02_s_2012_11	
39	5.68	5.73	Supplemental USACE Erosion Survey	WS Ma	M	Inspector Comments: 2009 - Tension cracks on road on top of levee. Erosion into the levee slope with large mass failure scallop. 2010 - Site extended further upstream to account for additional erosion. Very steep slope with slumping. 2012: No observed change. [2012 Site ID: SAC_15-0_L]	38.172580 ° -121.651821 °	38.172733 ° -121.652499 °	21	DWR ID:	
40	5.68	5.71	Earthen Levee	Trim / Thin Trees	LS Ma	M T1 : Trim trees to at least five feet above ground level. Ma	38.172388 ° -121.651892 °	38.172512 ° -121.652322 °	36	DWR ID: DWR_NA0002_02_s_2012_36	
41	5.70	5.70	Earthen Levee	Encroachments	LS En	M BU : Building Inspector Comments: Tool shed and animal pen at landside toe.	38.172442 ° -121.652182 °	38.172442 ° -121.652182 °	51	DWR ID: DWR_NA0002_02_s_2013_51	
42	5.70	5.70	Earthen Levee	Vegetation	LS En	M V6 : Landscaping Inspector Comments: Remove cactus from landside slope.	38.172457 ° -121.652188 °	38.172457 ° -121.652188 °	52	DWR ID: DWR_NA0002_02_s_2013_52	
43	5.82	6.15	Earthen Levee	Vegetation	LS En	A/W V2 : Remove the wild growth other than native grasses from the levee slopes.	38.173130 ° -121.654285 °	38.174559 ° -121.659867 °	13	DWR ID: DWR_NA0002_02_s_2012_13	
44	6.29	6.29	Earthen Levee	Vegetation	LS En	U V6 : Landscaping	38.173922 ° -121.662272 °	38.173922 ° -121.662272 °	50	DWR ID: DWR_NA0002_02_s_2013_50	
45	6.35	6.38	Earthen Levee	Trim / Thin Trees	LS En	A/W T1 : Trim trees to at least five feet above ground level. En	38.173586 ° -121.663297 °	38.173391 ° -121.663786 °	14	DWR ID: DWR_NA0002_02_s_2012_14	
46	6.82	6.82	Earthen Levee	Encroachments	LS En	U FE : Fence	38.169008 ° -121.669420 °	38.169008 ° -121.669420 °	42	DWR ID: DWR_NA0002_02_s_2012_42	
47	6.97	7.03	Supplemental USACE Erosion Survey	WS Ma	M	Inspector Comments: 2011 - Large section of bank slumped off. 2012: No observed change. [2012 Site ID: SAC_13-6_L]	38.166583 ° -121.670684 °	38.165794 ° -121.671014 °	23	DWR ID:	
48	7.63	7.63	Earthen Levee	Trim / Thin Trees	LS Ma	A/W T1 : Trim trees to at least five feet above ground level. Ma	38.157930 ° -121.675528 °	38.157930 ° -121.675528 °	49	DWR ID: DWR_NA0002_02_s_2013_49	
49	7.66	7.66	Earthen Levee	Encroachments	LS Ma	A/W PR : Prunings	38.157055 ° -121.675445 °	38.157055 ° -121.675445 °	24	DWR ID: DWR_NA0002_02_s_2012_24	

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No	Levee Mile		Category	Item	* Location	* Rating	Action/Comment	GPS Latitude/Longitude		Issue No.	
	Start	End						Start	End		
50	8.26	8.50	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2010 - Small inlet area behind a man-built spit. Bank is slumping and could possibly be fixed with maintenance. 2011 - Site continues to worsen. 2012: No observed change. [2012 Site ID: SAC_12-1_L]	38.151867 °	38.148711 °	37	
								-121.682201 °	-121.682790 °	Y	
										DWR ID:	
51	8.35	8.71	Earthen Levee	Trim / Thin Trees	LS	M	T1 : Trim trees to at least five feet above ground level.	38.150112 °	38.144977 °	44	
						Ma		-121.682305 °	-121.683345 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_44			
52	8.42	8.42	Earthen Levee	Encroachments	WS	M	TR : Tree or limb	38.149000 °	38.149000 °	57	
						Ma	Inspector Comments: Tree limbs on waterward slope.	-121.682479 °	-121.682479 °		
								DWR ID: DWR_NA0002_02_f_2013_57			
53	8.46	8.46	Earthen Levee	Encroachments	WS	M	TR : Tree or limb	38.148323 °	38.148323 °	33	
						Ma		-121.682548 °	-121.682548 °		
								DWR ID: DWR_NA0002_02_s_2012_33			
54	8.68	8.89	Earthen Levee	Trim / Thin Trees	LS	U	T1 : Trim trees to at least five feet above ground level.	38.145368 °	38.142430 °	48	
						Ma		-121.683072 °	-121.683978 °	Y	
								DWR ID: DWR_NA0002_02_s_2013_48			
55	8.93	8.93	Earthen Levee	Trim / Thin Trees	LS	A/W	T1 : Trim trees to at least five feet above ground level.	38.141928 °	38.141928 °	47	
						Ma		-121.684308 °	-121.684308 °		
								DWR ID: DWR_NA0002_02_s_2013_47			
56	8.95	9.17	Supplemental USACE Erosion Survey	WS	U	Ma	Inspector Comments: 2008 - Erosion causing vertical bank at the highway on top of levee. The whole bank along the highway should be repaired. 2009 - Minimal new erosion. 2011 - Bank continues to slowly erode. 2012: Upgrade to critical, new erosion since last year and steeper slopes in sections. [2012 Site ID: SAC_11-2_L]	38.141399 °	38.138158 °	38	
								-121.685346 °	-121.686531 °	Y	
								DWR ID:			
57	9.42	9.42	Earthen Levee	Trim / Thin Trees	WSA/W	T1	Trim trees to at least five feet above ground level.	38.135106 °	38.135106 °	15	
						En		-121.686065 °	-121.686065 °		
								DWR ID: DWR_NA0002_02_s_2012_15			
58	9.68	9.74	Earthen Levee	Vegetation	WSA/W	V2	Remove the wild growth other than native grasses from the levee slopes.	38.131448 °	38.130537 °	16	
						Ma		-121.686432 °	-121.686737 °	Y	
								DWR ID: DWR_NA0002_02_s_2012_16			
59	9.85	9.98	Supplemental USACE Erosion Survey	WS	M	Ma	Inspector Comments: 2004 - Wave wash pockets approximately 100 ft long with new full bank rock between the pockets. 2005 - Spot repairs, but toe is still eroding in several places. 2006 - Low vertical bank along roadway. 2007 - A PL 84-99 repair was constructed, it cover the majority of the site with the exception of the upstream 150 to 200 ft and the downstream 250 ft, therefore it is being kept in the inventory. 2009 - Minimal new erosion. 2010 - Outboard berm looks good, but the banks are still very steep. 2011 - While the outboard berm is protecting against wave wash, bank still has slumping issues. 2012: No observed change. [2012 Site ID: SAC_10-8_L]	38.129722 °	38.127672 °	58	
								-121.687468 °	-121.688646 °	Y	
									DWR ID:		

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
--

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

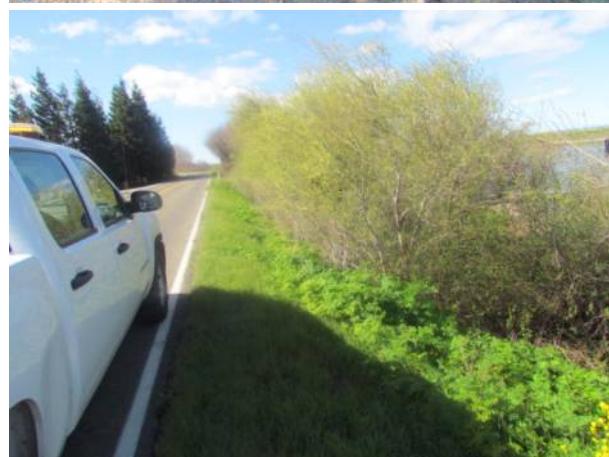
Levee Mile Report Line	1
Start Levee Mile	0.42
End Levee Mile	0.42
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at fence on landward shoulder and slope.	
richard_f_20130930_561.JPG	



Levee Mile Report Line	2
Start Levee Mile	0.48
End Levee Mile	0.48
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at storage container at landward toe.	
richard_f_20131021_077.JPG	



Levee Mile Report Line	5
Start Levee Mile	0.78
End Levee Mile	0.83
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking south at dense vegetation on waterside slope.	
richard_f_20130930_530.jpg	



* Location
LS : Land Side
WS : Water Side
CR : Crown

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	6
Start Levee Mile	0.81
End Levee Mile	0.83
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on landside slope blocking view of slope from LM .81 to 0.83.	
richard_f_20130930_532.jpg	



Levee Mile Report Line	6
Start Levee Mile	0.81
End Levee Mile	0.83
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at dense landscaping on landside slope.	
richard_f_20130930_533.jpg	



Levee Mile Report Line	7
Start Levee Mile	1.16
End Levee Mile	1.16
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Looking southwest at garbage on waterward slope and toe.	
richard_f_20131021_078.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	8
Start Levee Mile	1.44
End Levee Mile	1.44
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southeast at dense trees on landside toe.	
richard_f_20130930_562.jpg	



Levee Mile Report Line	8
Start Levee Mile	1.44
End Levee Mile	1.44
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking northeast at dense vegetation on landward toe.	
richard_f_20131021_079.JPG	



Levee Mile Report Line	12
Start Levee Mile	1.80
End Levee Mile	1.82
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at dense vegetation on landward slope and toe.	
richard_f_20131021_080.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	12
Start Levee Mile	1.80
End Levee Mile	1.82
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at dense vegetation on landward slope.	
richard_f_20131021_081.JPG	



Levee Mile Report Line	13
Start Levee Mile	1.80
End Levee Mile	1.80
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east at animal pens at landward toe.	
richard_f_20131021_082.JPG	



Levee Mile Report Line	15
Start Levee Mile	1.83
End Levee Mile	1.83
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking southeast at propane tank on landward slope and toe.	
richard_f_20131021_083.JPG	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	18
Start Levee Mile	1.91
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscaping on landside slope blocking view of slope from LM 1.91 to 1.95.	
richard_f_20130930_538.jpg	



Levee Mile Report Line	18
Start Levee Mile	1.91
End Levee Mile	1.95
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense landscaping on landside slope and toe.	
richard_f_20130930_539.jpg	



Levee Mile Report Line	21
Start Levee Mile	2.59
End Levee Mile	2.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2013_SAC_18-1_L_1.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	21
Start Levee Mile	2.59
End Levee Mile	2.63
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_SAC_18-1_L_2.jpg



18 SEP 2012

Levee Mile Report Line	22
Start Levee Mile	2.66
End Levee Mile	2.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_SAC_18-0_L_1.jpg



19 SEP 2012

Levee Mile Report Line	22
Start Levee Mile	2.66
End Levee Mile	2.74
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_SAC_18-0_L_2.jpg



18 SEP 2012

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	23
Start Levee Mile	2.93
End Levee Mile	3.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at urban encroachments on landward slope.	
richard_f_20131021_084.JPG	



Levee Mile Report Line	23
Start Levee Mile	2.93
End Levee Mile	3.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking north at urban encroachments on landward slope and toe.	
richard_f_20131021_085.JPG	



Levee Mile Report Line	24
Start Levee Mile	3.17
End Levee Mile	3.17
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking south at overhanging tree on waterside shoulder.	
richard_f_20130930_531.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	27
Start Levee Mile	3.40
End Levee Mile	3.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_SAC_17-2_L_1.jpg



Levee Mile Report Line	27
Start Levee Mile	3.40
End Levee Mile	3.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_SAC_17-2_L_2.jpg



Levee Mile Report Line	27
Start Levee Mile	3.40
End Levee Mile	3.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013_SAC_17-2_L_3.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	27
Start Levee Mile	3.40
End Levee Mile	3.57
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4



USACE2013_SAC_17-2_L_4.jpg

Levee Mile Report Line	29
Start Levee Mile	3.61
End Levee Mile	3.72
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2013_SAC_16-8_L_1.jpg

Levee Mile Report Line	29
Start Levee Mile	3.61
End Levee Mile	3.72
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2013_SAC_16-8_L_2.jpg

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	29
Start Levee Mile	3.61
End Levee Mile	3.72
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2013_SAC_16-8_L_3.jpg

Levee Mile Report Line	30
Start Levee Mile	3.67
End Levee Mile	3.67
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking east at excavation on landward slope.



Levee Mile Report Line	30
Start Levee Mile	3.67
End Levee Mile	3.67
Location	Land Side
Category	Earthen Levee
Item	Encroachments

Looking southeast at excavation on landward slope next to ramp.



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	30
Start Levee Mile	3.67
End Levee Mile	3.67
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at excavation on landward slope.	
richard_f_20131021_088.JPG	



Levee Mile Report Line	32
Start Levee Mile	4.04
End Levee Mile	4.15
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense landscaping on landward slope.	
richard_f_20130930_578.JPG	



Levee Mile Report Line	34
Start Levee Mile	4.59
End Levee Mile	4.59
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking northeast at broken tree limb on landward slope and toe.	
richard_f_20130930_577.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	35
Start Levee Mile	5.19
End Levee Mile	5.43
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southeast at dense trees on landside slope and toe.	
richard_f_20130930_534.jpg	



Levee Mile Report Line	35
Start Levee Mile	5.19
End Levee Mile	5.43
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking west at dense trees on waterward shoulder and slope.	
richard_f_20130930_535.JPG	



Levee Mile Report Line	35
Start Levee Mile	5.19
End Levee Mile	5.43
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking northwest at dense trees on waterward shoulder and slope.	
richard_f_20130930_536.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	38
Start Levee Mile	5.66
End Levee Mile	5.70
Location	Water Side
Category	Earthen Levee
Item	Vegetation
Looking northwest at compliant vegetation on waterside slope.	
richard_f_20130930_537.JPG	



Levee Mile Report Line	39
Start Levee Mile	5.68
End Levee Mile	5.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2013_SAC_15-0_L_1.jpg	



Levee Mile Report Line	39
Start Levee Mile	5.68
End Levee Mile	5.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2013_SAC_15-0_L_2.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	39
Start Levee Mile	5.68
End Levee Mile	5.73
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #3	
USACE2013_SAC_15-0_L_3.jpg	



Levee Mile Report Line	41
Start Levee Mile	5.70
End Levee Mile	5.70
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking east tool shed and animal corral on landward slope and toe.	
richard_f_20130930_576.JPG	



Levee Mile Report Line	43
Start Levee Mile	5.82
End Levee Mile	6.15
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking southeast at compliant vegetation on landside slope.	
richard_f_20130930_540.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	44
Start Levee Mile	6.29
End Levee Mile	6.29
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking north at dense landscaping on landward slope.	
richard_f_20130930_574.JPG	



Levee Mile Report Line	44
Start Levee Mile	6.29
End Levee Mile	6.29
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Looking south at dense landscaping on landward slope.	
richard_f_20130930_575.JPG	



Levee Mile Report Line	46
Start Levee Mile	6.82
End Levee Mile	6.82
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Brick wall on landside shoulder at LM 6.82.	
richard_f_20130930_570.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	47
Start Levee Mile	6.97
End Levee Mile	7.03
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2013_SAC_13-6_L_1.jpg

Levee Mile Report Line	47
Start Levee Mile	6.97
End Levee Mile	7.03
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2013_SAC_13-6_L_2.jpg

Levee Mile Report Line	47
Start Levee Mile	6.97
End Levee Mile	7.03
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2013_SAC_13-6_L_3.jpg

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

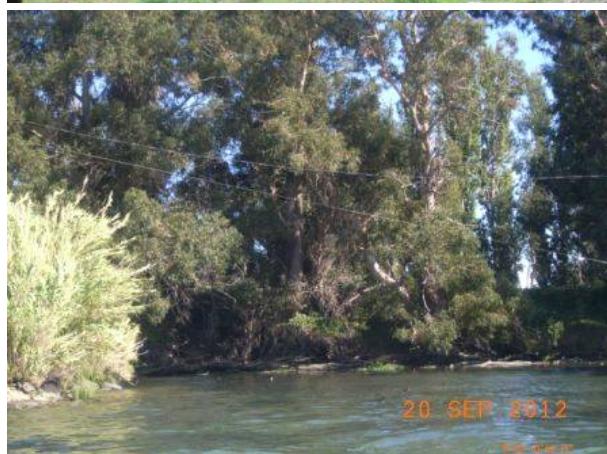
Levee Mile Report Line	49
Start Levee Mile	7.66
End Levee Mile	7.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking west at prunings on landside toe.	
richard_f_20130930_559.jpg	



Levee Mile Report Line	49
Start Levee Mile	7.66
End Levee Mile	7.66
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Looking south at prunings on landside toe.	
richard_f_20130930_560.jpg	



Levee Mile Report Line	50
Start Levee Mile	8.26
End Levee Mile	8.50
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	
USACE2013_SAC_12-1_L_1.jpg	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	50
Start Levee Mile	8.26
End Levee Mile	8.50
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2013_SAC_12-1_L_2.jpg	



Levee Mile Report Line	51
Start Levee Mile	8.35
End Levee Mile	8.71
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking southeast at trees on landside shoulder and slope.	
richard_f_20130930_571.jpg	



Levee Mile Report Line	54
Start Levee Mile	8.68
End Levee Mile	8.89
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking north at dense trees on landward slope and toe.	
richard_f_20130930_572.JPG	



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

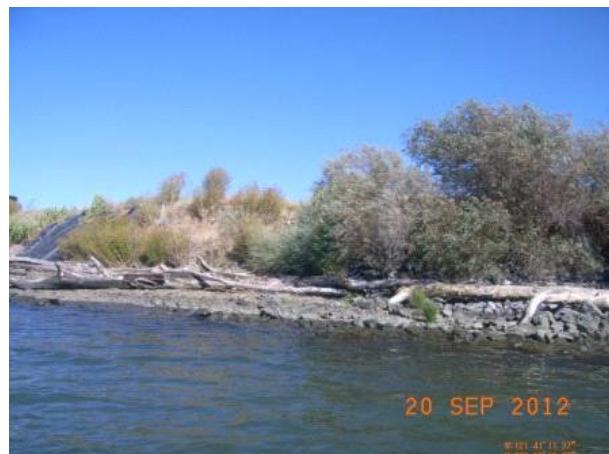
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	54
Start Levee Mile	8.68
End Levee Mile	8.89
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees
Looking south at trees on landward slope.	
richard_f_20130930_573.JPG	



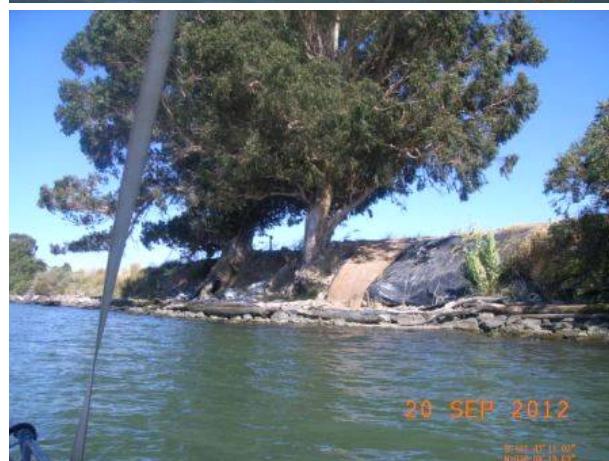
Levee Mile Report Line	56
Start Levee Mile	8.95
End Levee Mile	9.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



Levee Mile Report Line	56
Start Levee Mile	8.95
End Levee Mile	9.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2



USACE2013_SAC_11-2_L_1.jpg

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	56
Start Levee Mile	8.95
End Levee Mile	9.17
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3



USACE2013_SAC_11-2_L_3.jpg

Levee Mile Report Line	58
Start Levee Mile	9.68
End Levee Mile	9.74
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Looking west at dense vegetation on waterward shoulder and slope.



richard_f_20130930_541.JPG

Levee Mile Report Line	59
Start Levee Mile	9.85
End Levee Mile	9.98
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1



USACE2013_SAC_10-8_L_1.jpg

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LS : Land Side
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Fall 2013

Brannan Andrus Levee Maintenance District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	13.30	10/08/2013 10/08/2013	Richard Willoughby

Levee Mile Report Line	59
Start Levee Mile	9.85
End Levee Mile	9.98
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_SAC_10-8_L_2.jpg



Levee Mile Report Line	59
Start Levee Mile	9.85
End Levee Mile	9.98
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013_SAC_10-8_L_3.jpg



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